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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/731,739	12/10/2003	John P. Carulli	032796-217	5366
21839	7590 08/09/2006		EXAMINER	
BUCHANAN, INGERSOLL & ROONEY PC			QIAN, CELINE X	
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,			1636	
			DATE MAILED: 08/09/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/731,739	CARULLI ET AL.
Office Action Summary	Examiner	Art Unit
·	Celine X. Qian Ph.D.	1636
The MAILING DATE of this communication	appears on the cover sheet with the	e correspondence address
Period for Reply A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filled on	B DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be not will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDO alling date of this communication, even if timely form.	ON. e timely filed om the mailing date of this communication. INED (35 U.S.C. § 133). filed, may reduce any prosecution as to the merits is
Disposition of Claims		
4)⊠ Claim(s) <u>1,2,4-8,14,15,22-25 and 80-100</u> is 4a) Of the above claim(s) <u>14,15,22-25 and 8</u> 5)⊠ Claim(s) <u>1,2,4,6,7,81-83 and 88-96</u> is/are a 6)⊠ Claim(s) <u>5,8,84-89 and 97-100</u> is/are reject 7)⊠ Claim(s) <u>86 and 87</u> is/are objected to 8)□ Claim(s) are subject to restriction an	80 is/are withdrawn from considerallowed. ed.	ation.
Application Papers	•	
9)☐ The specification is objected to by the Exam 10)☒ The drawing(s) filed on 10 December 2003 is Applicant may not request that any objection to the Replacement drawing sheet(s) including the cor 11)☐ The oath or declaration is objected to by the	is/are: a) \square accepted or b) \square objective drawing(s) be held in abeyance. Some rection is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the papplication from the International Bur * See the attached detailed Office action for a	ents have been received. ents have been received in Application of the property documents have been received (PCT Rule 17.2(a)).	ation No ived in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 1203,704,1004,1105.		
	e Action Summary	Part of Paper No./Mail Date 20060803

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DETAILED ACTION

Claims 1, 2, 4-8, 14, 15, 22-25, 80-100 are pending in the application.

Election/Restrictions

Applicant's election with traverse of Group I in the reply filed on 6/8/06 is acknowledged. The traversal is on the ground(s) that the Office fails to show a serious burden to search all eleven groups of invention in a single application. Applicants further argue that some of the groups are classified in the same class, thus a search of those groups would not be burdensome. This is not found persuasive because the inventions are distinct for reasons set forth in the office action mailed on 4/20/06. It would have been burdensome to search all the groups together because the divergent subject matter which are covered by the different groups as shown by their different classification (different class or subclass). Although some of the groups fall within the same class such as 536, 424 and 530, Applicants are reminded that each of the class now encompasses a large amount of literature of different subject matter ranging from nucleic acid not used in recombinant technology and those which are used in recombinant technology (536), or cancer cells or components (424/277.1) and bioaffecting antibodies (424/130.1). As such, even some of the inventions are classified in the same class, they belong to different subclasses, and a search of all the inventions in the same class would still be burdensome because the search would not be co-extensive.

The requirement is still deemed proper and is therefore made FINAL.

Accordingly, claims 14, 15, 22-25 and 80 are withdrawn from consideration for being directed to non-elected subject matter. Claims 1, 2, 4-8 and 81-100 are currently under examination.

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Claim Objections

Claims 86 and 87 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The parent claims (84 or 85) recites a "bone cell." Claims 86 and 87 recites that the bone cell is a mesenchymal stem cell, osteoclast, osteoblast or a chondrocyte. However, mesenchymal stem cells are cells that can give rise to connective tissues, lymphatics, bone, and cartilage cells, and chondrocytes are not bone cells. As such, claims 86 and 87 do not further limit their parent claims.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 5, 88, 89 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 5, the recitation of "A replicative cloning vector comprising...a replicon operative in an isolated host cell" renders the claim indefinite because it is unclear whether the vector is operative or the replicon is operative in an isolate host cell. Appropriate clarification is needed. Claims 88 and 89 are rejected for same reason because they depend on claim 5.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection

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is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 8, 84-87, 97-100 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 162-166 of copending Application No. 10/374,979. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are all drawn to a host cell expressing a polypeptide comprising amino acid sequence of SEQ ID NO:3.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Conclusion

Claims 1, 2, 4, 6, 7, 81-83, 88-96 are allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Celine X. Qian Ph.D. whose telephone number is 571-272-0777. The examiner can normally be reached on 9:30-6:00 M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Remy Yucel Ph.D. can be reached on 571-272-0781. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Celine X Qian Ph.D. Examiner Art Unit 1636

CELINE QIAN, FIRE PRIMARY EXAMINER